

Commonwealth of Kentucky
Division for Air Quality

PERMIT APPLICATION SUMMARY FORM

Completed by: D. Brian Ballard

GENERAL INFORMATION:

Name:	Armstrong Hardwood Flooring Company
Address:	630 Industry Rd., Somerset, KY 42501
Date application received:	7/23/2004
SIC/Source description:	2426, Hardwood Dimension & Flooring Mills
Source ID #:	21-199-00074
Source A.I. #:	3813
Activity #:	APE20040001
Permit number:	V-06-037

APPLICATION TYPE/PERMIT ACTIVITY:

<input type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input type="checkbox"/> Conditional major
__Administrative	<input checked="" type="checkbox"/> Title V
__Minor	<input checked="" type="checkbox"/> Synthetic minor
__Significant	<input checked="" type="checkbox"/> Operating
<input checked="" type="checkbox"/> Permit renewal	<input type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input checked="" type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input type="checkbox"/> Not major modification per 401 KAR 51:001, 1(116)(b)	

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☒ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☒ Certified by responsible official
- ☐ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

EMISSIONS SUMMARY:

Pollutant	Actual (tpy)	Potential (tpy)	Allowable (tpy)
PM	64.6	170.7	230
PM ₁₀	52.7	155.1	230
SO ₂	0.95	4.4	230
NO _x	18.0	74.5	230
CO	28.3	97.6	230
VOC	185.5	252.2	230
Individual HAPs	Actual (lb/yr)	Potential (lb/yr)	Allowable (tpy)
2,4,6-Trichlorophenol (CAS No. 88-06-2)	0.0014	0.0064	9.0
2,4-Dinitrophenol (CAS No. 51-28-5)	0.0112	0.0526	9.0
4-Nitrophenol (CAS No. 100-02-7)	0.0068	0.0322	9.0
Acetaldehyde (CAS No. 75-07-0)	1,579.2	1,770.2	9.0
Acetophenone (CAS No. 98-86-2)	0.0002	0.0010	9.0
Acrolein (CAS No. 107-02-8)	458.9	1,382.2	9.0
Antimony Compounds	0.4900	2.31	9.0
Arsenic Compounds	1.37	6.45	9.0
Benzene (CAS No. 71-43-2)	394.4	1,364.3	9.0
Beryllium Compounds	0.0684	0.3226	9.0
Bis (2-Ethylhexyl) Phthalate (CAS No. 117-81-7)	0.0030	0.0138	9.0
Cadmium Compounds	0.2552	1.20	9.0
Carbon Tetrachloride (CAS No. 56-23-5)	2.80	13.2	9.0
Chlorine (CAS No. 7782-50-5)	49.0	231.0	9.0
Chlorobenzene (CAS No. 108-90-7)	2.1	9.7	9.0

EMISSIONS SUMMARY (CONTINUED):

Individual HAPs	Actual (lb/yr)	Potential (lb/yr)	Allowable (tpy)
Chloroform (CAS No. 67-66-3)	1.74	8.21	9.0
Chromium Compounds	1.31	6.16	9.0
Cobalt Compounds	0.4042	1.30	9.0
Cumene (CAS No. 98-82-8)	42.4	46.0	9.0
Ethyl Benzene (CAS No. 100-41-4)	1.93	9.08	9.0
Formaldehyde (CAS No. 50-00-0)	14,224	15,240	9.0
Glycol Ether	5,479	6,666	9.0
Hydrochloric Acid (CAS No. 7647-01-0)	1,183	5,573	9.0
Lead (CAS No. 7439-92-1)	2.98	14.07	9.0
Manganese Compounds	99.6	469.5	9.0
Mercury Compounds	0.218	1.03	9.0
Methanol (CAS No. 67-56-1)	3,077	3,077	9.0
Methyl Isobutyl Ketone (CAS No. 108-10-1)	435.2	435.2	9.0
Toluene (CAS No. 108-88-3)	0.739	0.801	9.0
Naphthalene (CAS No. 91-20-3)	6.03	28.4	9.0
Nickel Compounds	2.05	9.68	9.0
o-Xylene (CAS No. 95-47-6)	1.56	7.33	9.0
Pentachloro-Phenol (CAS No. 87-86-5)	0.0032	0.0148	9.0
Phenol (CAS No. 108-95-2)	1,100	1,111	9.0
Propionaldehyde (CAS No. 123-38-6)	37.38	37.38	9.0
Selenium Compounds	0.1742	0.8208	9.0
Styrene (CAS No. 100-42-5)	153.3	592.3	9.0

EMISSIONS SUMMARY (CONTINUED):

Individual HAPs	Actual (lb/yr)	Potential (lb/yr)	Allowable (tpy)
Tetrachloroethene (CAS No. 127-18-4)	2.37	11.15	9.0
Toluene (CAS No. 108-88-3)	1,708	2,045	9.0
Trichloroethene (CAS No. 79-01-6)	1.87	8.80	9.0
Vinyl Chloride (CAS No. 75-01-4)	1.12	5.27	9.0
Xylene (CAS No. 1330-20-70)	169.8	176.5	9.0
	Actual (tpy)	Potential (tpy)	Allowable (tpy)
Source wide HAPs	14.9	20.0	22.5

SOURCE DESCRIPTION:

Armstrong Hardwood Flooring Company in Somerset, Kentucky makes pre-finished hardwood flooring. Emissions at the facility originate from boilers, woodworking, drying, gluing and product finishing (including staining, sealing and clean-up) and drying/curing of finished product.

EMISSIONS AND OPERATING CAPS DESCRIPTIONS:

The source has requested federally enforceable emissions caps of 9.0 tons for individual HAP and 22.5 tons per year for combined HAPs per twelve-month rolling period so as to preclude the applicability of 40 CFR Part 63, Subpart DDDD – National Emission Standards for Hazardous Air Pollutants (NESHAP): Plywood and Composite Wood Products; Subpart QQQQ – NESHAP: Surface Coating of Wood Building Products; and DDDDD – NESHAP: Industrial, Commercial and Institutional Boilers and Process Heaters. The source currently has an emission cap of 230 tons for VOC per twelve-month rolling period. This emission cap precludes the applicability of 401 KAR 51:017, prevention of significant deterioration of air quality for VOC emissions.